



# Drought Conditions Update

April 20, 2023  
8:25 AM

April 20th, 2023

## Key Messages

- Severe (D2) drought remains unchanged over southeast Kansas
- Moderate (D1) drought coverage remains unchanged over southeast Kansas and southwest Missouri.
- Abnormal dry (D0) expanded into parts of west central and central Missouri.
- Latest [Drought Information Statement](#)

NEW

## Important Updates

- Drought conditions expanded slightly over west central into central Missouri.

## Next Scheduled Briefing

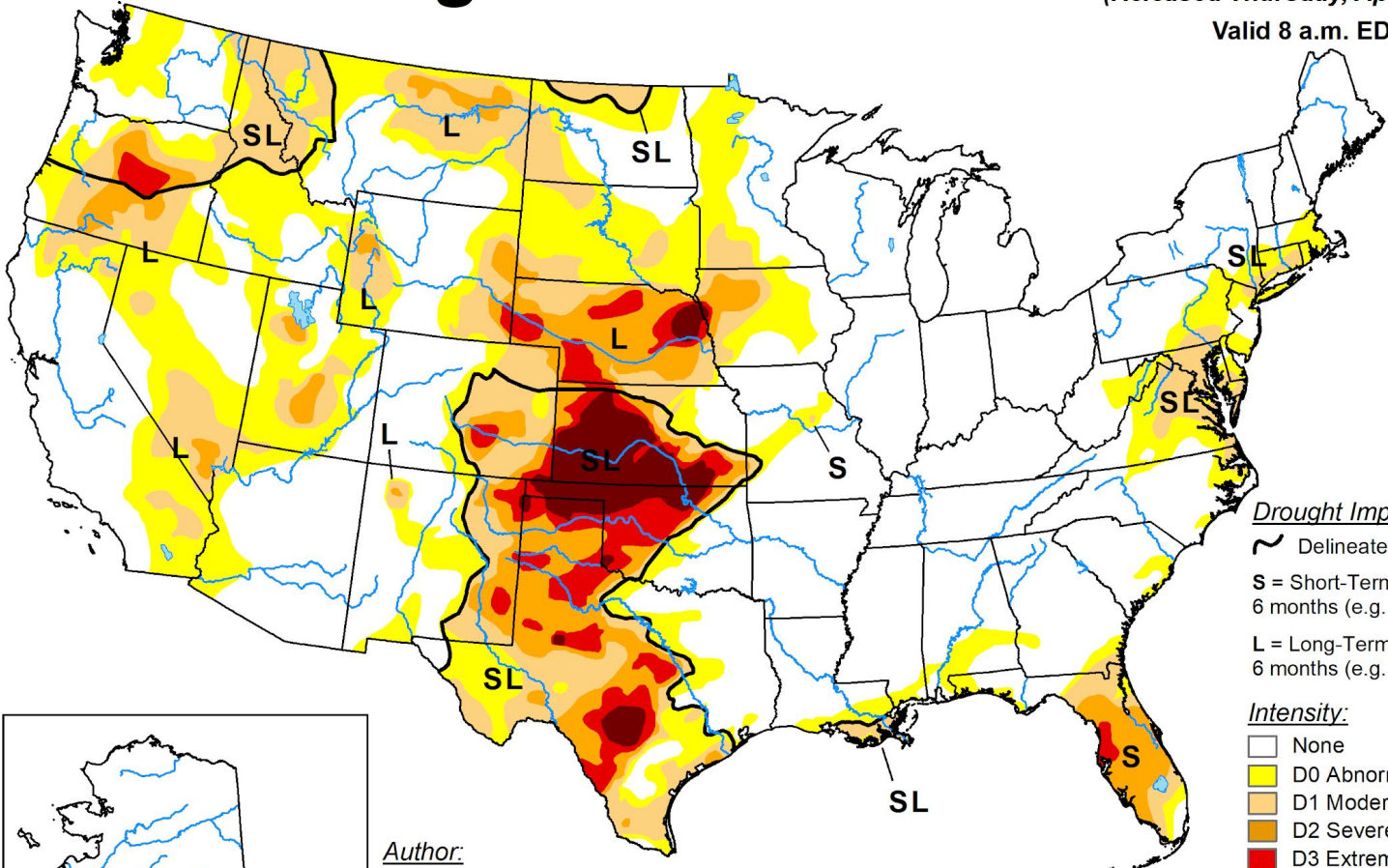
- Thursday April 27th, 2023

## U.S. Drought Monitor

April 18, 2023

(Released Thursday, Apr. 20, 2023)

Valid 8 a.m. EDT



### Drought Impact Types:

- ~ Delineates dominant impacts
- S = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)
- L = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)

### Intensity:

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

Author:  
Richard Tinker  
CPC/NOAA/NWS/NCEP

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>



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Springfield, MO



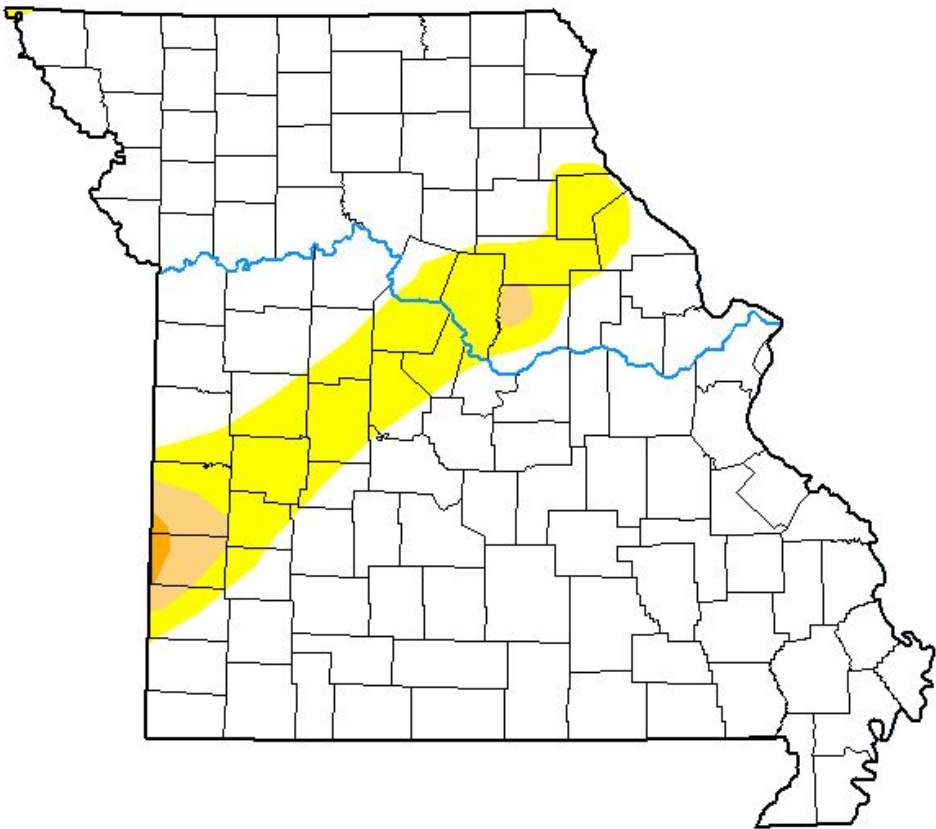
# Missouri Drought Monitor

April 20, 2023  
8:25 AM

## Overview

- Severe (D2) drought remains over western Barton and southwest Vernon counties.
- Moderate (D1) drought remains over southwest Missouri in Vernon, Barton and Jasper Counties.
- Abnormally Dry (D0) areas expanded over part of west central into central Missouri over St. Clair, Benton and Morgan counties.
- D0 to D1 drought covers around 13 percent of the state, up from last weeks 9 percent.

## U.S. Drought Monitor Missouri



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Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	86.13	13.87	1.79	0.21	0.00	0.00
Last Week 04-11-2023	91.14	8.86	1.79	0.21	0.00	0.00
3 Months Ago 01-17-2023	40.18	59.82	10.74	1.61	0.00	0.00
Start of Calendar Year 01-03-2023	50.31	49.69	12.51	1.61	0.00	0.00
Start of Water Year 09-27-2022	18.48	81.52	56.59	15.39	4.83	1.92
One Year Ago 04-19-2022	99.94	0.06	0.00	0.00	0.00	0.00

Intensity:

None

D0 Abnormally Dry

D1 Moderate Drought

D2 Severe Drought

D3 Extreme Drought

D4 Exceptional Drought

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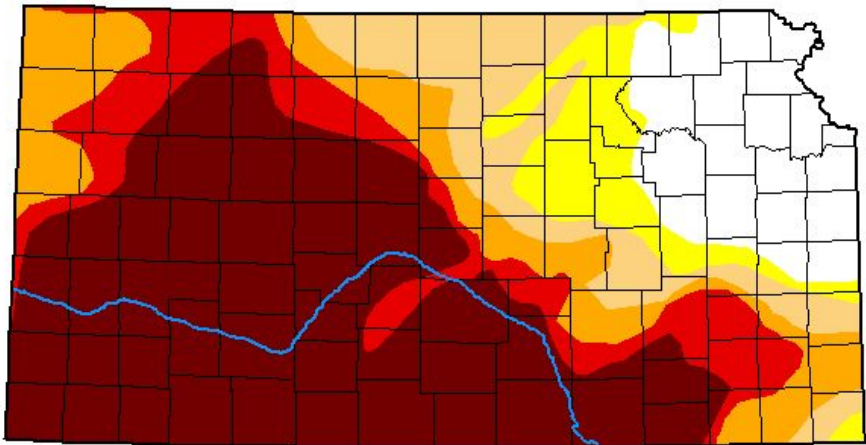
# Kansas Drought Monitor

April 20, 2023  
8:25 AM

## Overview

- Exceptional (D4) drought conditions remain over portions of southern and western Kansas, covering 43.5 percent of the state.
- Extreme (D3) to exceptional (D4) drought conditions cover much of southern, central and western Kansas, or nearly 57 percent of the state.
- Only portions of northeast and north central Kansas were not in drought.

### U.S. Drought Monitor Kansas



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Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	13.04	86.96	79.79	69.13	56.84	44.99
Last Week 04-11-2023	12.01	87.99	80.73	69.13	56.26	43.47
3 Months Ago 01-17-2023	0.51	99.49	84.47	68.86	57.07	37.97
Start of Calendar Year 01-03-2023	0.53	99.47	84.47	68.86	57.02	36.85
Start of Water Year 09-27-2022	1.48	98.52	82.55	67.05	52.70	24.90
One Year Ago 04-19-2022	25.94	74.06	66.66	52.59	17.38	2.06

Intensity:

None

D0 Abnormally Dry

D1 Moderate Drought

D2 Severe Drought

D3 Extreme Drought

D4 Exceptional Drought

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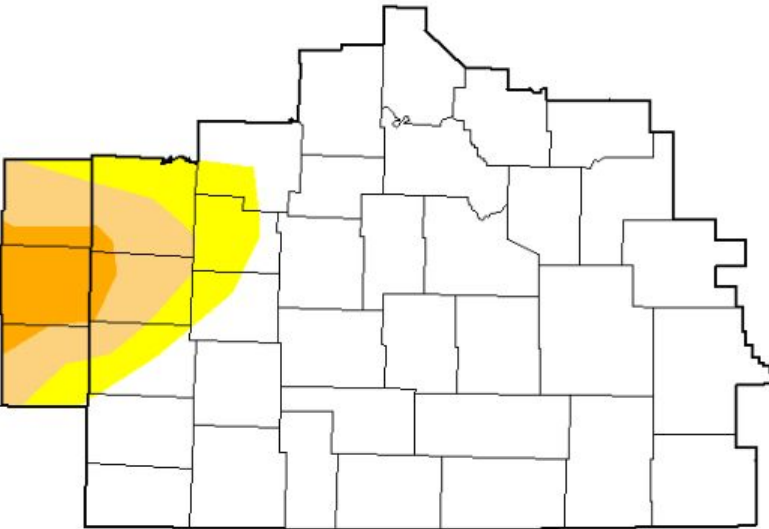
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# Drought Monitor Weekly Comparison

April 20, 2023  
8:25 AM

## U.S. Drought Monitor Springfield, MO WFO



**April 11, 2023**  
(Released Thursday, Apr. 13, 2023)  
Valid 8 a.m. EDT

	Drought Conditions (Percent Area)					
	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	82.64	17.36	10.71	3.79	0.00	0.00
Last Week 04-04-2023	82.64	17.36	10.54	3.79	0.00	0.00
3 Months Ago 01-10-2023	51.65	48.35	17.89	9.63	1.64	0.00
Start of Calendar Year 01-03-2023	67.05	32.95	17.89	9.63	1.63	0.00
Start of Water Year 09-27-2022	25.36	74.64	57.79	28.92	17.48	9.99
One Year Ago 04-12-2022	100.00	0.00	0.00	0.00	0.00	0.00

**Intensity:**  
None D2 Severe Drought  
D0 Abnormally Dry D3 Extreme Drought  
D1 Moderate Drought D4 Exceptional Drought

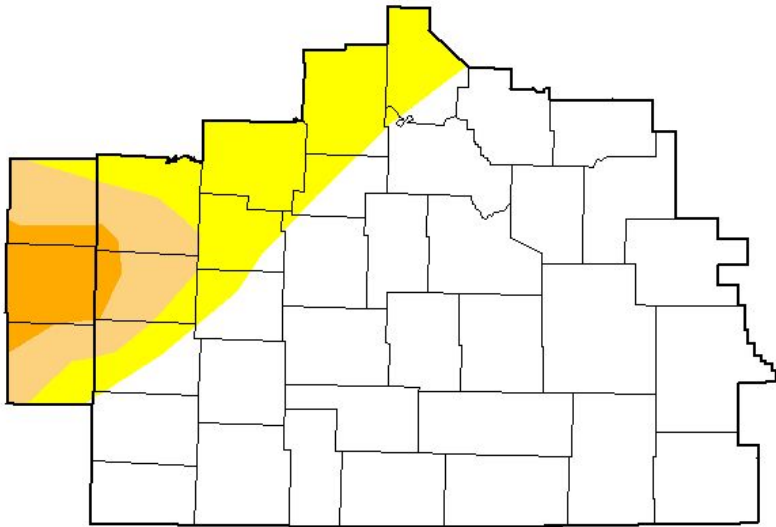
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**Author:**  
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Western Regional Climate Center



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## U.S. Drought Monitor Springfield, MO WFO



**April 18, 2023**  
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Valid 8 a.m. EDT

	Drought Conditions (Percent Area)					
	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	74.88	25.12	10.71	3.79	0.00	0.00
Last Week 04-11-2023	82.64	17.36	10.71	3.79	0.00	0.00
3 Months Ago 01-17-2023	51.42	48.58	18.37	9.63	1.64	0.00
Start of Calendar Year 01-03-2023	67.05	32.95	17.89	9.63	1.63	0.00
Start of Water Year 09-27-2022	25.36	74.64	57.79	28.92	17.48	9.99
One Year Ago 04-19-2022	96.69	3.31	0.00	0.00	0.00	0.00

**Intensity:**  
None D2 Severe Drought  
D0 Abnormally Dry D3 Extreme Drought  
D1 Moderate Drought D4 Exceptional Drought

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April 11th Drought Monitor

April 18th Drought Monitor



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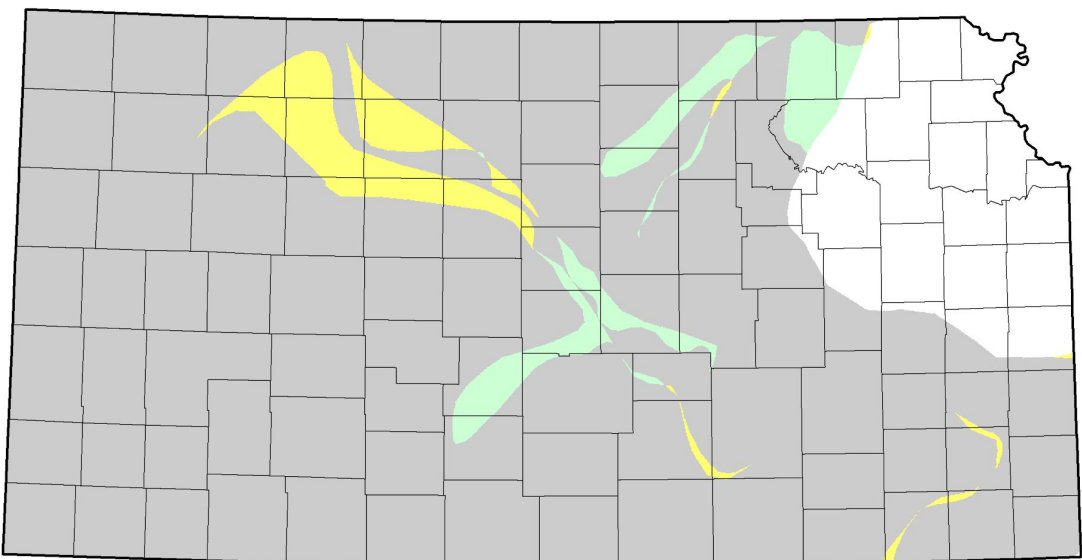


# Drought Monitor Weekly Change

April 20, 2023  
8:25 AM

Slight expansion of D0 over west central and central MO

U.S. Drought Monitor Class Change - Kansas  
1 Week

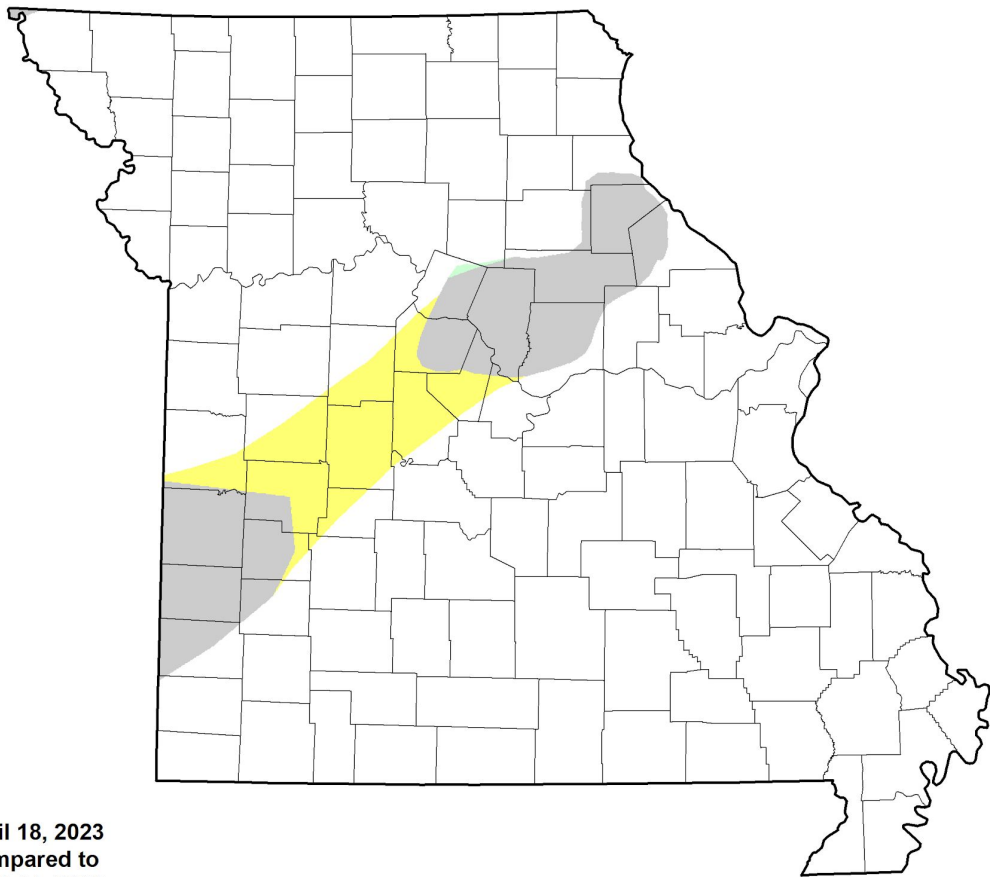


- 5 Class Degradation
- 4 Class Degradation
- 3 Class Degradation
- 2 Class Degradation
- 1 Class Degradation
- No Change
- 1 Class Improvement
- 2 Class Improvement
- 3 Class Improvement
- 4 Class Improvement
- 5 Class Improvement

April 18, 2023  
compared to  
April 11, 2023

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U.S. Drought Monitor Class Change - Missouri  
1 Week



- 5 Class Degradation
- 4 Class Degradation
- 3 Class Degradation
- 2 Class Degradation
- 1 Class Degradation
- No Change
- 1 Class Improvement
- 2 Class Improvement
- 3 Class Improvement
- 4 Class Improvement
- 5 Class Improvement

April 18, 2023  
compared to  
April 11, 2023

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Springfield, MO



# April 27th - May 3rd Outlook

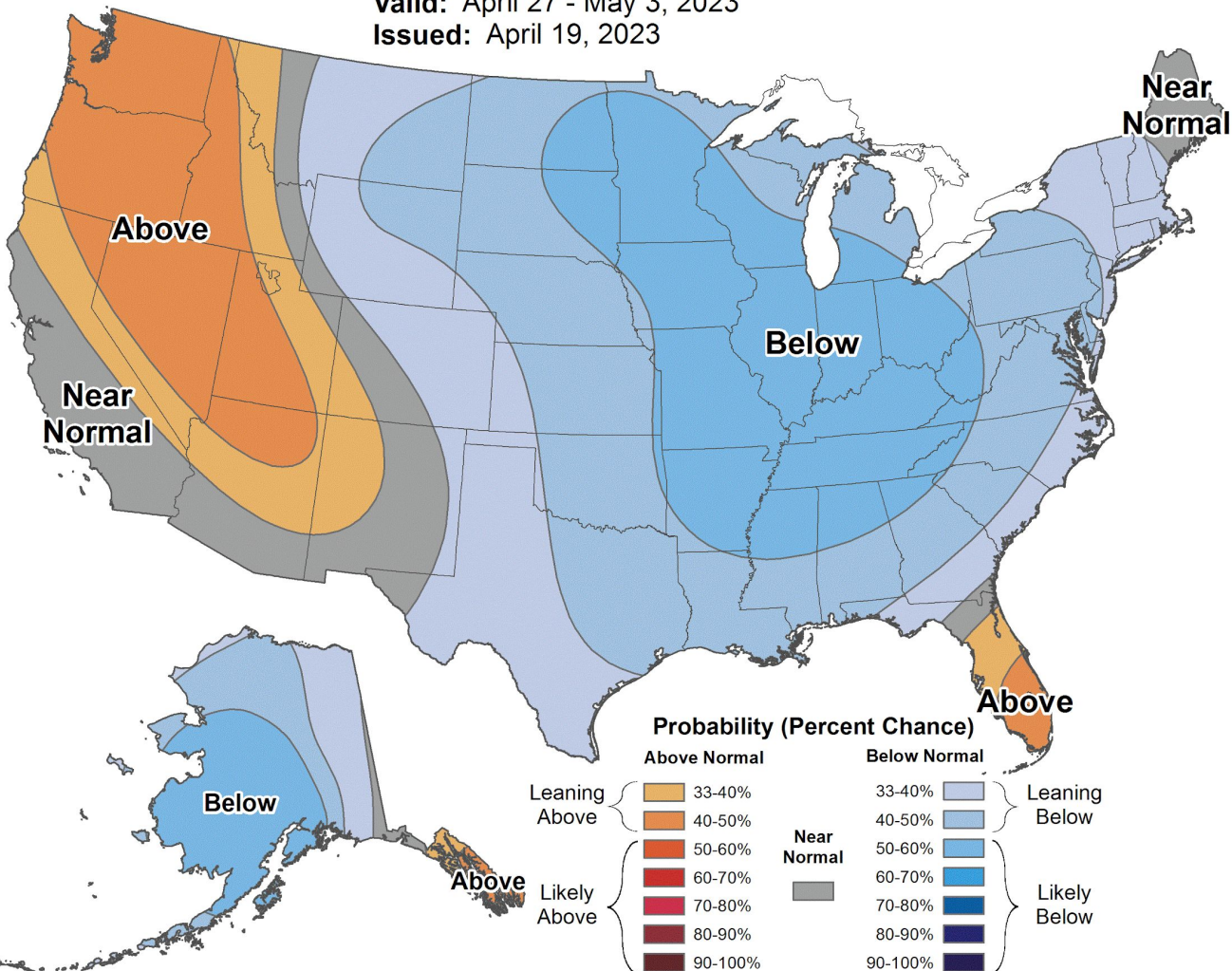
April 20, 2023  
8:25 AM

Below Normal Temperatures and Below Normal Precipitation are Favored



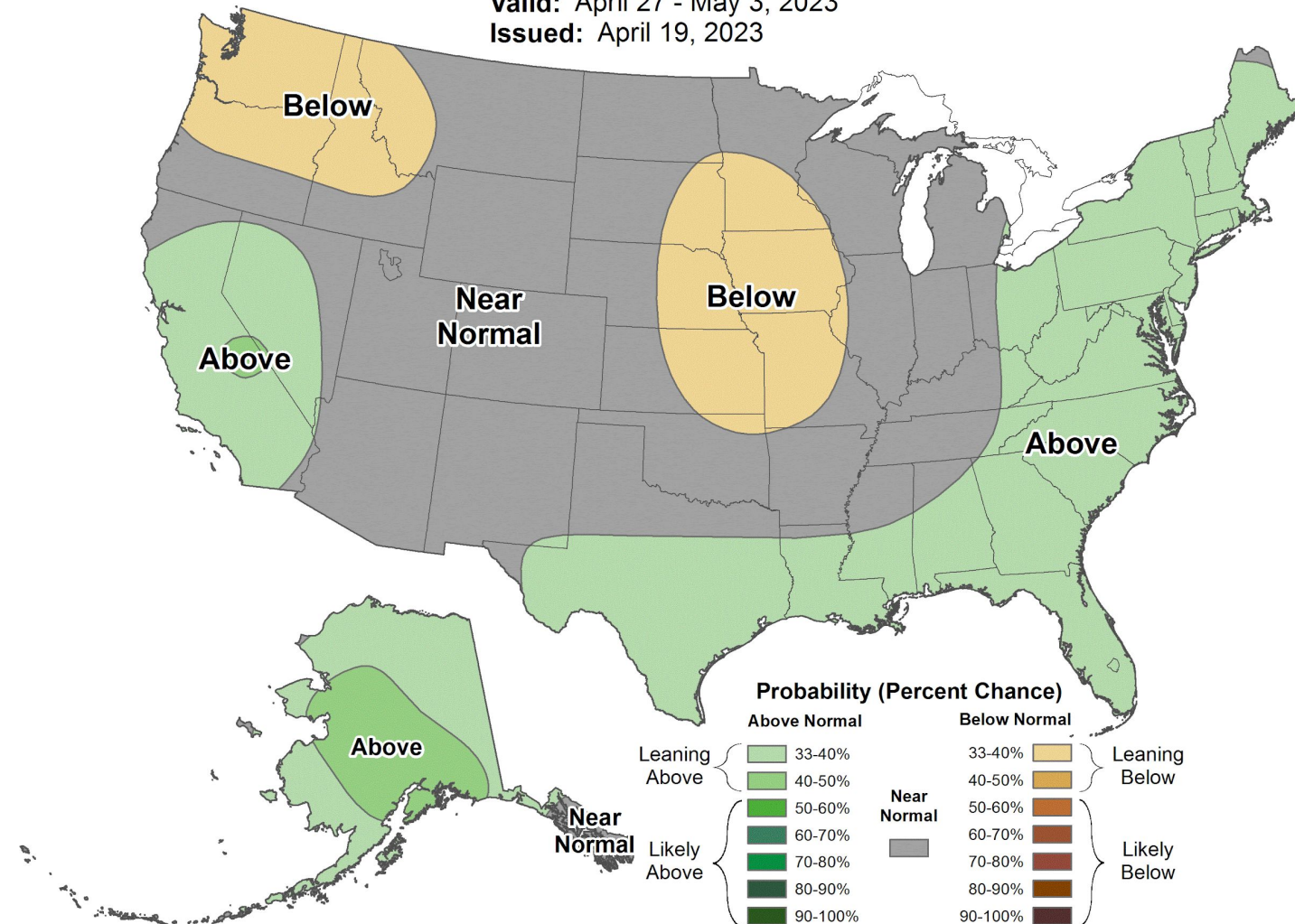
## 8-14 Day Temperature Outlook

Valid: April 27 - May 3, 2023  
Issued: April 19, 2023



## 8-14 Day Precipitation Outlook

Valid: April 27 - May 3, 2023  
Issued: April 19, 2023



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# May Outlook

April 20, 2023  
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Near Normal Temperatures and Above Normal Precipitation are Favored

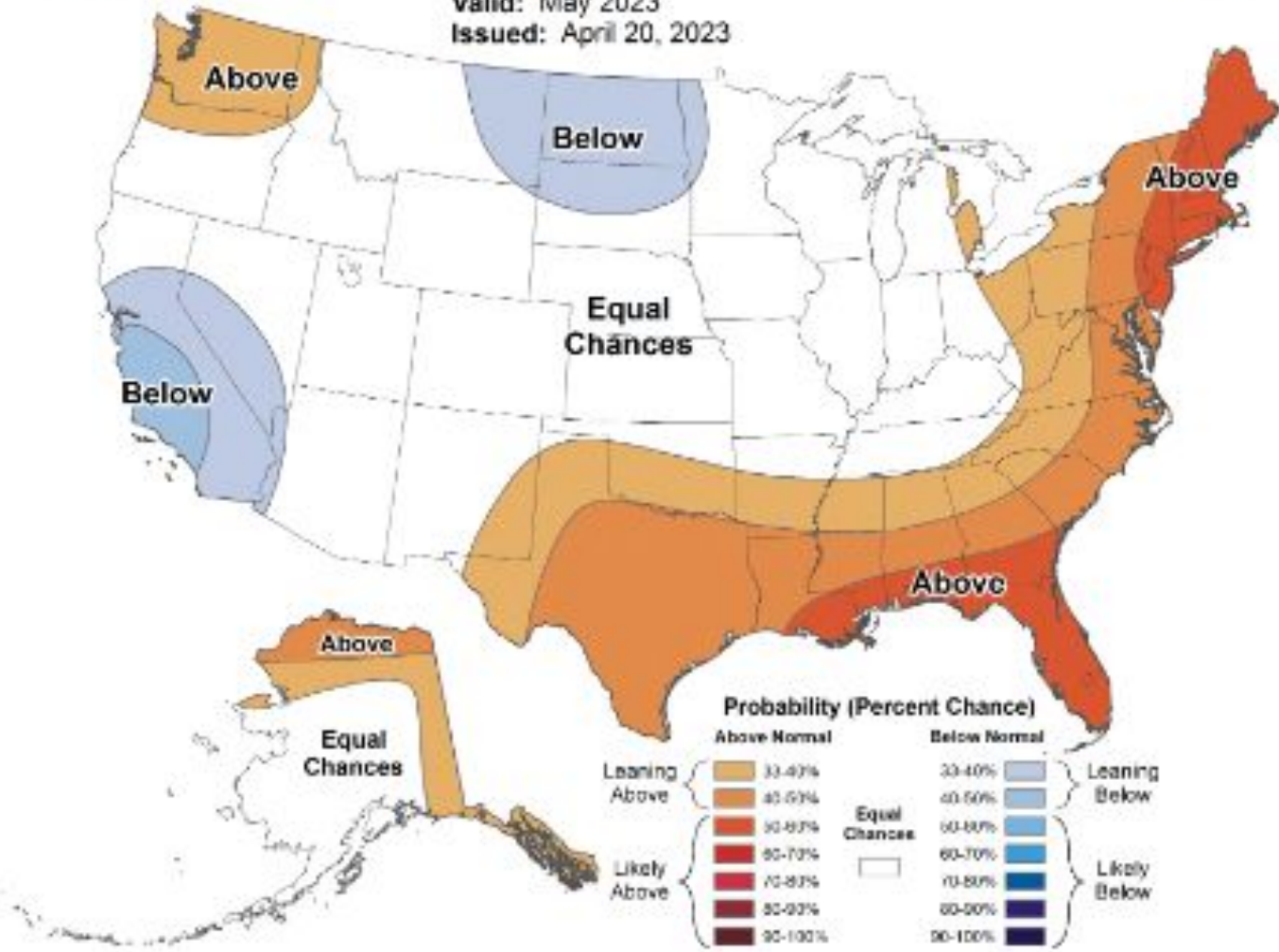
Issued: April 20, 2023



## Monthly Temperature Outlook



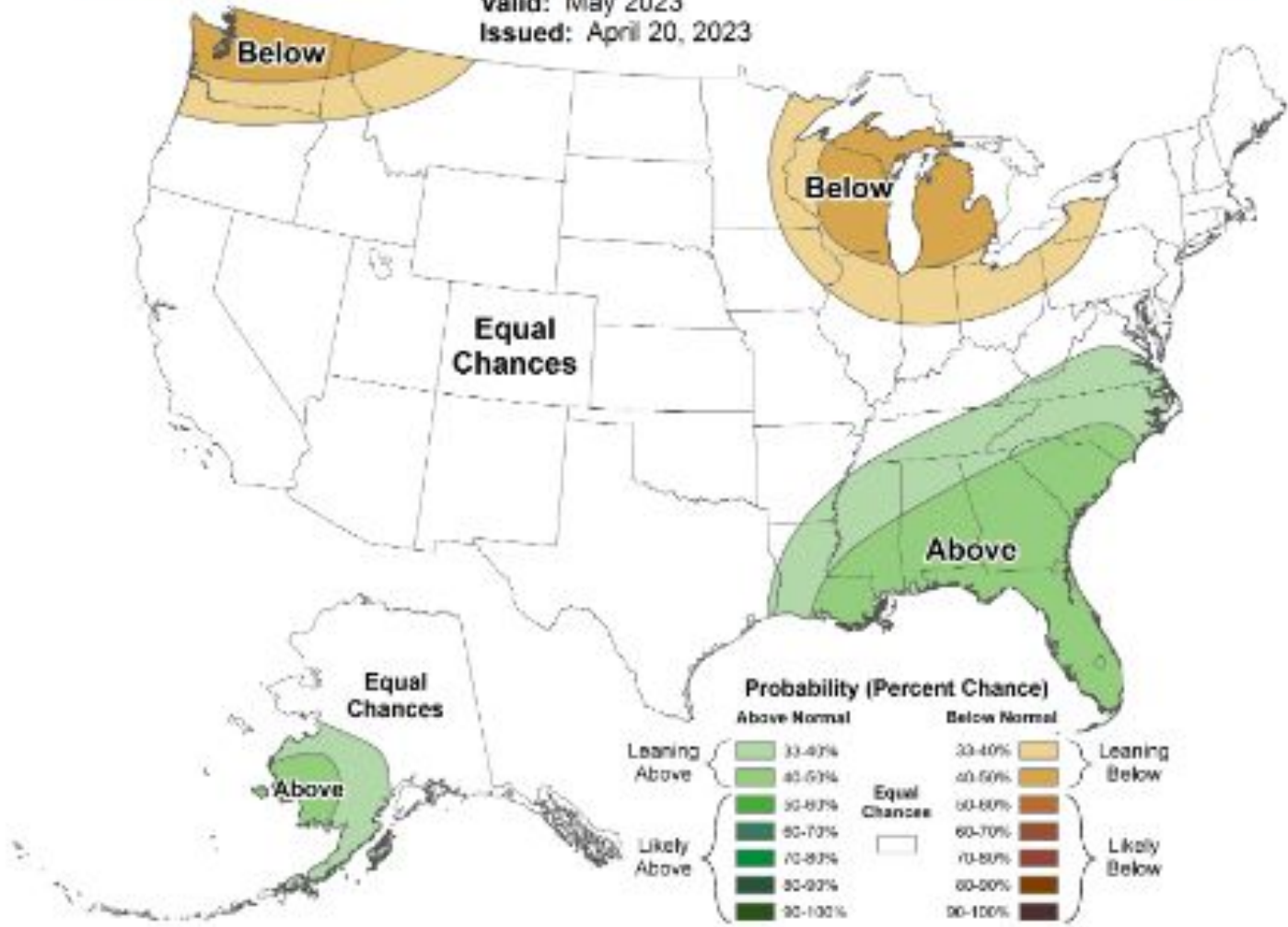
Valid: May 2023  
Issued: April 20, 2023



## Monthly Precipitation Outlook



Valid: May 2023  
Issued: April 20, 2023







# May - July Outlook

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8:25 AM

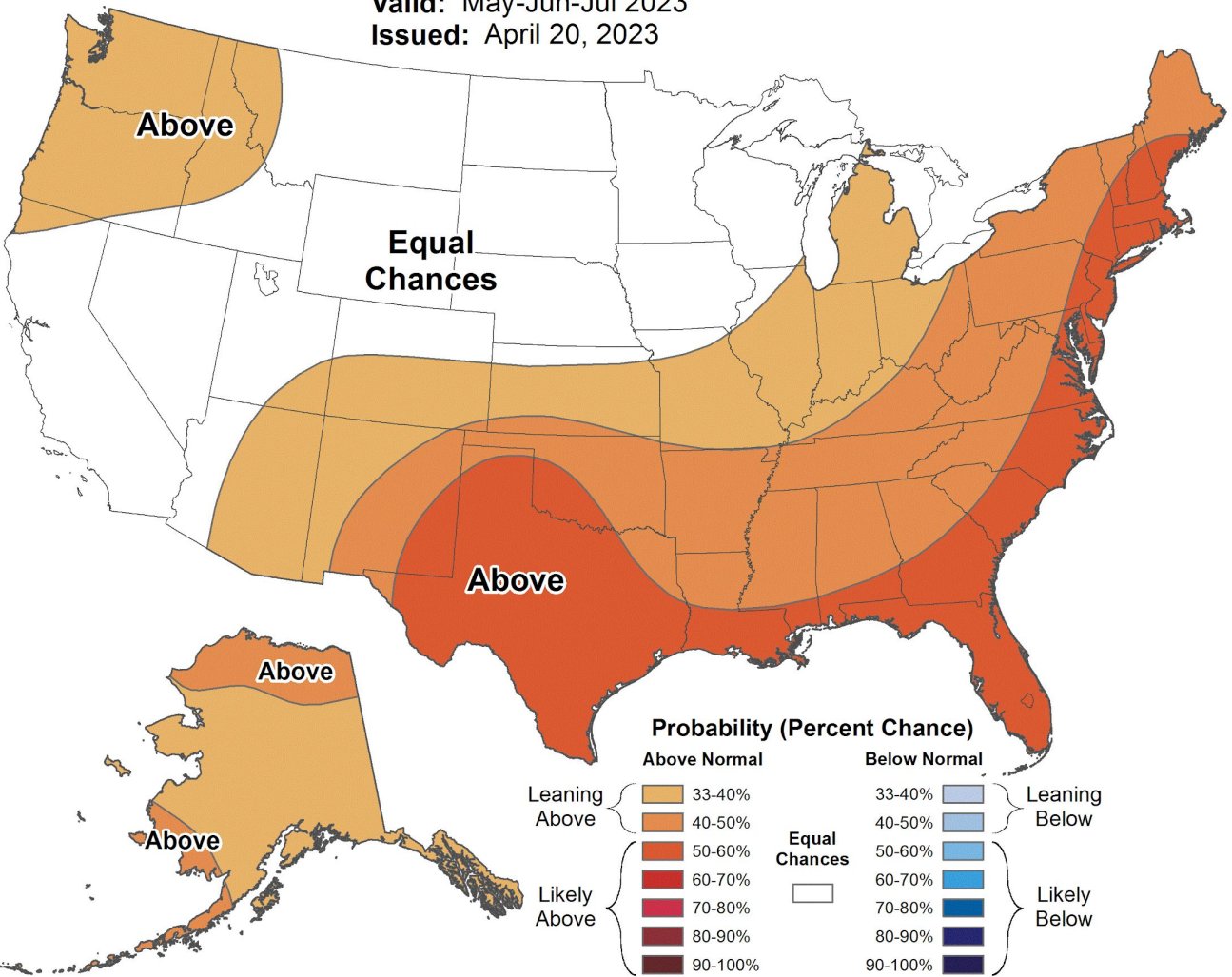
Above Normal Temperatures and Near to Above Normal Precipitation Favored



## Seasonal Temperature Outlook



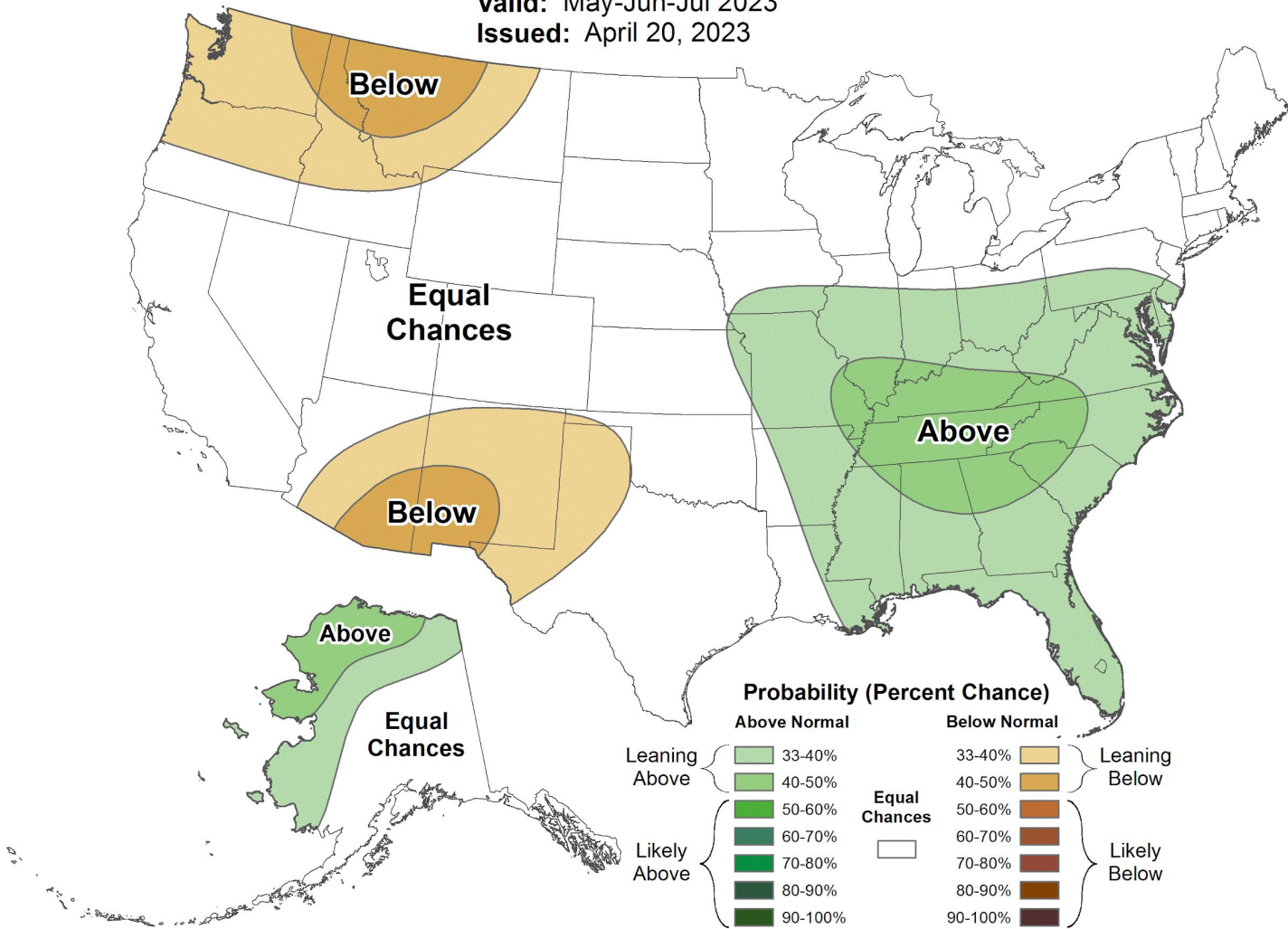
Valid: May-Jun-Jul 2023  
Issued: April 20, 2023



## Seasonal Precipitation Outlook



Valid: May-Jun-Jul 2023  
Issued: April 20, 2023







# Seasonal Drought Outlook

April 20, 2023  
8:25 AM

April 20 - July 31

## Drought Worsens



## Drought Persists

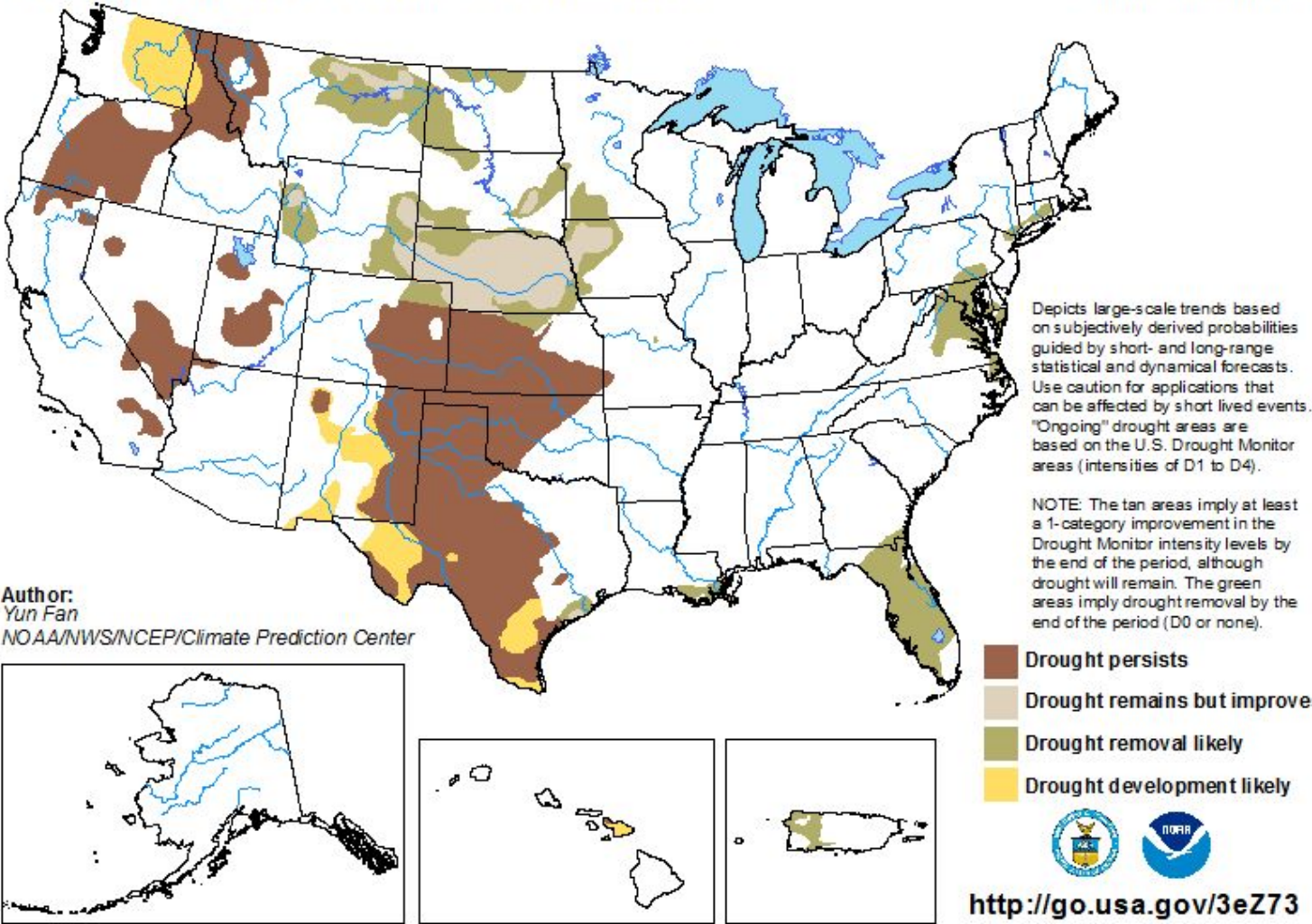


## Drought Removal



### U.S. Seasonal Drought Outlook Drought Tendency During the Valid Period

Valid for April 20 - July 31, 2023  
Released April 20







# Additional Resources

April 20, 2023  
8:25 AM

## For Additional Information

- [NWS Springfield Webpage](#)
- [IDSS Point Forecasts](#)
- [NWS Springfield Drought Monitor Resources](#)
- [Graphical Hazardous Weather Outlook](#)
- [Missouri Drought Monitor](#) | [Kansas Drought Monitor](#)
- [CPC Drought Information](#)
- [National Integrated Drought Information System \(NIDIS\)](#)
- [National Drought Mitigation Center \(NDMC\)](#)
- [Missouri USGS Streamflows](#) | [Kansas USGS Streamflows](#)
- [Drought Safety](#)

## Drought Impacts



### Agriculture

Farms, ranches, and grazing lands suffer, and increases the cost of their products



### Public Health

A decrease of water can lead to an increase of illness, disease, mortality rates, and adverse mental health



### Ecosystems

Harms fish, wildlife, and plants, as well as the benefits these ecosystems provide



### Wildfire Management

Dry, hot, and windy weather combined with dried out vegetation can lead to more large-scale wildfires



### Manufacturing

Interruptions in the water supply can result in a reduction of productivity or closure of facilities



### Energy

Production of all types of energy requires water, and drought can severely impact energy systems and prices



## During a Drought be Vigilant

Conserve Water

Practice Fire Prevention

Follow Directions from Local Officials

Trinity Lake, CA, dry lakebed during California Drought, 2014. Photo: USGS



weather.gov/drought



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